



Report of Test

LLIA000901-021

Catalog Number: P52314L2/F11/D61/L411

Pendant mounted, formed white steel and aluminum frame, translucent white interior "lumenate" diffuser with translucent white acrylic enclosure, exterior opaque "lumenate" shade, no enclosure.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2086A, 24.47W, 0.978PF, 11.6%THD(i)



Performance Summary

Total Light Output	1236 lm
Luminaire Power	24.5 W
Luminous Efficacy	50.4 lm/W

PREPARED FOR : Lumetta, Inc, 33 Minnesota Avenue, Warwick, RI 02888, USA



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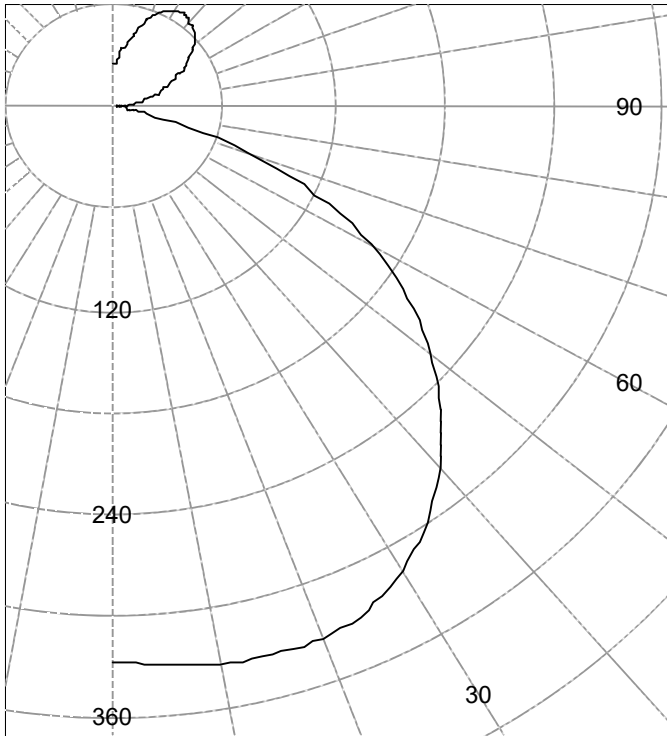
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Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	751
55.0	605
65.0	403
75.0	131
85.0	33

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	328		90	1	
5	331	32	95	4	5
10	333		100	10	
15	334	95	105	17	18
20	333		110	25	
25	328	151	115	34	33
30	315		120	42	
35	298	186	125	50	44
40	277		130	57	
45	253	195	135	62	47
50	225		140	65	
55	196	175	145	66	41
60	162		150	66	
65	122	120	155	61	28
70	78		160	55	
75	35	41	165	46	13
80	16		170	38	
85	8	8	175	31	3
90	1		180	26	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	277	N / A	22.4
0-40	464	N / A	37.5
0-60	833	N / A	67.4
0-90	1002	N / A	81.0
40-90	538	N / A	43.5
60-90	169	N / A	13.7
90-180	234	N / A	19.0
0-180	1236	N / A	100.0

Total Light Output = 1,236 lm

Spacing Criterion:	0-180	1.4
Spacing Criterion:	90-270	1.4

Signed:

Authorized Signatory

Date of test 8-Jan-2018
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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	328		90.0	1	
2.5	329		92.5	2	
5.0	331	32	95.0	4	5
7.5	332		97.5	6	
10.0	333		100.0	10	
12.5	334		102.5	13	
15.0	334	95	105.0	17	18
17.5	334		107.5	21	
20.0	333		110.0	25	
22.5	331		112.5	29	
25.0	328	151	115.0	34	33
27.5	322		117.5	38	
30.0	315		120.0	42	
32.5	307		122.5	46	
35.0	298	186	125.0	50	44
37.5	288		127.5	53	
40.0	277		130.0	57	
42.5	265		132.5	59	
45.0	253	195	135.0	62	47
47.5	239		137.5	63	
50.0	225		140.0	65	
52.5	211		142.5	66	
55.0	196	175	145.0	66	41
57.5	180		147.5	67	
60.0	162		150.0	66	
62.5	142		152.5	64	
65.0	122	120	155.0	61	28
67.5	100		157.5	58	
70.0	78		160.0	55	
72.5	56		162.5	51	
75.0	35	41	165.0	46	13
77.5	21		167.5	42	
80.0	16		170.0	38	
82.5	12		172.5	34	
85.0	8	8	175.0	31	3
87.5	3		177.5	28	
90.0	1		180.0	26	



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Coefficients Of Utilization - Zonal Cavity Method

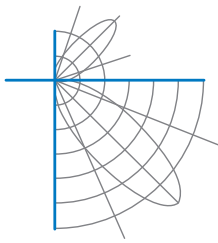
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81
1	105	101	97	93	101	97	93	90	89	86	84	82	80	78	76	74	73	69
2	96	88	82	77	92	85	79	74	78	74	70	72	69	65	67	64	61	58
3	88	78	70	64	84	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	60	54	76	66	59	53	61	55	50	57	52	47	53	48	45	42
5	74	61	53	46	70	59	51	45	55	48	43	51	45	41	47	43	39	36
6	68	55	46	40	65	53	45	39	49	43	38	46	40	36	43	38	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	36	31	27	25
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	9.1	8.41	8.41
8.0	5.1	11.21	11.21
10.0	3.3	14.01	14.01
12.0	2.3	16.81	16.81
14.0	1.7	19.61	19.61
16.0	1.3	22.42	22.42



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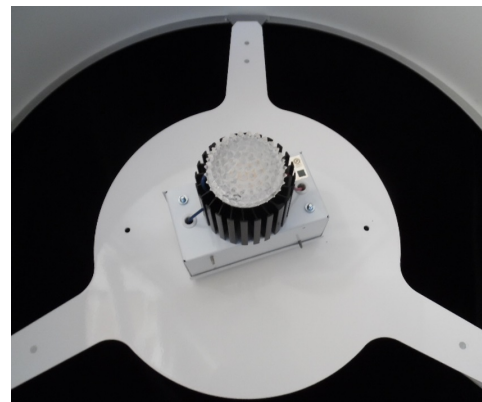
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Test Distance 9.5 m
Test Temperature 24.5 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

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